

## RJ45 to Terminal Block Cable Adapter

### Description

The Niobrara BB85 is a small DIN rail mounted breakout box intended to simplify connection between a Modicon® style RS-485 port with an RJ45 connector and a 2-wire or 4-wire RS-485 network.

The BB85 makes linking a QUCM-O, QUCM-OE or a Momentum™ RS-485 Serial Option Adapter to a network of POWERLOGIC® devices easy; there is no need to install a modular plug. The RS-485 terminal block uses the pinout familiar to POWERLOGIC users (see diagram below)

A Niobrara MM0 RJ45 straight-through cable is supplied with the unit to connect the QUCM, CUCM, CNOE-800, CNOS-001 or other device to the BB85. The POWERLOGIC or other RS-485 network is then connected to screw terminals having the pinout familiar to POWERLOGIC users.

Niobrara can provide cables for other RS-485 pinouts and connectors to utilize the BB85; contact the factory for details.

### Instructions

1. Confirm that the QUCM-O port to be connected is set to RS-485 mode using the front panel switch. For other devices, consult the user manual for pinout to ensure proper connection.
2. Use the supplied MM0 cable to connect the QUCM-O port or other device to the BB85.
3. Connect the POWERLOGIC or other RS-485 device to the terminal block connector according to the pinout diagram below.
4. Refer to instructions for the connected devices.

### Pinouts

Below is a pinout diagram of the BB85 showing standard POWERLOGIC cabling on the terminal block:

RJ45 Pin	Terminal Block
8 (GND)	(S)
1 (RX-)	(IN-)
2 (RX+)	(IN+)
6 (TX-)	(OUT-)
3 (TX+)	(OUT+)

# Niobrara Research & Development Corporation

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## Related Products

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The BB85 has the following related products:

- **MMO** QUCM serial port to DDC21 cable; RJ45 to RJ45
- **NC5-T** Green network connector for BB85 (5-position), top wire entry

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